



Plasma cutting application

Tractor trailer repair

Examples of plasma uses

Kingpin re-setting

Loose hitch connections can be caused by a deformed kingpin which is located under the front of the trailer. Welds securing the typical 12 mm (1/2") thick coupler plate must be gouged out to repair the damaged kingpin.

Systems: Powermax45® XP, Powermax65 SYNC™, or 85 SYNC

Bumper replacement

Routine docking or rear collisions cause contortion of the bumper. Welds securing the structural steel brackets and channel stock must be gouged out for the installation of new parts.

Systems: Powermax30 XP, 45 XP, Powermax65 SYNC, or 85 SYNC

Trailer body repair

Collision damaged sections of trailer bodies, typically 1.6 mm (1/16") thick aluminum sheets, are cut away for replacement panels to be riveted to support rails. Holes are cut for running hoses, wire harnesses and mounting lights.

Systems: Powermax30 XP or 45 XP

Frame repair

Accident damaged portions of steel I-beam, typically 9 mm (3/8") thick, are cut away and replacement stock is cut to size and installed.

Systems: Powermax30 XP, 45 XP, or Powermax65 SYNC

Key advantages of Powermax systems

- Superior speed of plasma cutting results in shorter cut times and greater productivity over processes such as oxyfuel or saws.
- Easy to set up and operate.
- Piercing capability makes starting interior cuts easy.
- High cut quality reduces or eliminates secondary operations, such as grinding.
- Drag-cutting technology makes it easy to follow a line or template.
- Gouging process efficiently removes existing welds with reduced noise and smoke over conventional methods.
- System portability offers ease of use at various locations.
- Controlled arc and high cutting speeds reduce heat-affected zone and warping.
- Cut a variety of ferrous and non-ferrous metals including mild steel, stainless and aluminum – painted or rusted.
- Max control and max removal gouging consumables, HyAccess™ extended reach consumables and FlushCut™ consumables for cutting close to the workpiece make cutting and gouging jobs easier and faster.

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